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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,830	06/28/2003	Mark A. Bakkc	1370.041US1	8444
21186 7590 06/29/2007 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938			EXAMINER .	
			TRAN, PHILIP B	
MINNEAPOLIS, MN 55402		ART UNIT	PAPER NUMBER	
			2155	
			MAIL DATE	DELIVERY MODE
			06/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·	Application No.	Applicant(s)				
·	10/607,830	BAKKE ET AL				
Office Action Summary	Examiner	Art Unit				
	Philip B. Tran	2155				
The MAILING DATE of this communication app	'					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 16(a). In no event, however, may a rill apply and will expire SIX (6) MC cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>01 Ma</u>	<u>arch 2007</u> .					
	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims		·				
4) Claim(s) 1-42 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-42</u> is/are rejected.		,				
7) Claim(s) is/are objected to.	olootion requirement					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	•.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The oath or declaration is objected to by the Ex	aminer. Note the attache	ed Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of	or the certified copies no	it received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		o(s)/Mail Date Informal Patent Application				
Paper No(s)/Mail Date 3/1/07. 6) Other:						

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DETAILED ACTION

Claim Objections

1. Claims 17 and 22 are objected to because of the following informalities:

Claim 17 is objected under 37 CFR 1.75 as being a substantial duplicate of claim 22.

When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Appropriate correction is required.

Claim Rejections - 35 U.S.C. § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-19, 14-32 and 36-42 are rejected under 35 U.S.C. § 102(e) as being anticipated by Hebert, U.S. Pat. No. 6,718,383.

Regarding claim 1, Hebert teaches a method for providing failover for a network address in an application gateway device having a first network interface and at least a second network interface, the method comprising:

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receiving a set of configuration data for the application gateway device, the configuration data including a first network address for the first network interface and a second network address for the second network interface (= configuration of two network connections with a primary NIC and a second NIC) [see Abstract and Figs. 3-7 & 12-13];

detecting a failure in the first network interface, and analyzing the configuration data to determine if the first network address can be used on the second network interface, and if so, moving the first network address to the second network interface (= detecting if there is a failure on a primary network connection, then configuring the second network interface with the parameters of the primary network interface) [see Col. 2, Lines 8-58 and Col. 6, Line 46 to Col. 8, Line 5 and Col. 9, Lines 7-59].

Regarding claim 2, Hebert further teaches the method of claim 1, wherein the network address is an IP (Internet Protocol) address [see Abstract].

Regarding claim 3, Hebert further teaches the method of claim 2, further comprising determining if the second network interface will support an additional MAC (Media Access Control) address to be associated with the first IP address [see Col. 6, Lines 17-45].

Regarding claim 4, Hebert further teaches the method of claim 1, wherein analyzing the configuration data includes determining if the first network address and

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the second network address are on the same network [see Col. 4, Line 60 to Col. 5, Line 32 and Col. 6, Lines 17-45].

Regarding claim 5, Hebert further teaches the method of claim 1, wherein analyzing the configuration data includes determining if the first network address and the second network address are on the same subnet [see Figs. 4 & 7 and Col. 4, Line 60 to Col. 5, Line 32 and Col. 6, Lines 17-45].

Regarding claim 6, Hebert further teaches the method of claim 1, further comprising determining if the second network interface is capable of adding the first network address [see Abstract and Col. 6, Line 46 to Col. 8, Line 5 and Col. 9, Lines 7-59].

Regarding claim 7, Hebert further teaches the method of claim 1, further comprising issuing a gratuitous ARP (Address Resolution Protocol) packet [see Col. 4, Line 60 to Col. 5, Line 32].

Regarding claim 8, Hebert further teaches the method of claim 1, further comprising determining if another application gateway device on the network is configured to use the first network address [see Col. 4, Line 60 to Col. 5, Line 32 and Col. 6, Lines 17-45].

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Regarding claim 9, Hebert further teaches the method of claim 1, further comprising determining if the second network interface can support a VLAN (Virtual Local Area Network) associated with the first network address [see Abstract and Col. 13, Lines 30-48].

Regarding claim 10, Hebert further teaches the method of claim 1, wherein the network interface is an Ethernet interface [see Col. 6, Lines 17-45].

Regarding claim 14, Hebert further teaches the method of claim 10, further comprising issuing a gratuitous ARP packet [see Col. 4, Line 60 to Col. 5, Line 32].

Regarding claim 15, Hebert further teaches the method of claim 1, wherein analyzing the configuration includes determining if the network address is in use by another application gateway device on a network communicatively coupled to the first and second network interfaces [see Col. 4, Line 60 to Col. 5, Line 32 and Col. 6, Line 46 to Col. 8, Line 5 and Col. 9, Lines 7-59].

Claim 16 is rejected under the same rationale set forth above to claim 1.

Claim 17 is rejected under the same rationale set forth above to claim 10.

Claims 18-19 are rejected under the same rationale set forth above to claims 2-3.

Claim 20 is rejected under the same rationale set forth above to claim 6.

Claim 21 is rejected under the same rationale set forth above to claim 8.

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Claim 22 is rejected under the same rationale set forth above to claim 10.

Claims 23-32 are rejected under the same rationale set forth above to claims 1-10.

Claim 38 is rejected under the same rationale set forth above to claim 1.

Claims 39-42 are rejected under the same rationale set forth above to claims 3-6.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 11-13 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hebert, U.S. Pat. No. 6,718,383 in view of Osafune et al (Hereafter, Osafune), U.S. Pat. Application Pub. No. US 2002/0023150 A1.

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Regarding claim 11, Hebert does not explicitly teach the method of claim 10, wherein moving the first network address to the second network interface comprises removing the network address from the first interface, removing a MAC address associated with the network address from a static routing table associated with the first interface, moving the network address and the MAC address to the second network interface, and reinstalling the static routing table on the second network interface. However, Osafune, in the same field of failover mechanism endeavor, discloses detecting a fault occurring in the path between its active network interface, removing network address from the routing table and changing IP address assignment as well as MAC address from it active network interface to its standby network interface [see Osafune, Abstract and Paragraphs 0016-0019]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teaching of Osafune into the teaching of Hebert in order to quickly identify a failure occurring on a link in the network and immediately provide a reconfiguration for a backup link without much delaying in routing data service in the network.

Regarding claims 12-13, Hebert further teaches the method of claim 10, further comprising removing at least one ARP entry for at least one host on a subnet associated with the first network address and flushing cached routes for TCP, UDP and IP protocols. However, Osafune, in the same field of failover mechanism endeavor, discloses detecting a fault occurring in the path between its active network interface, removing network address from the routing table and changing IP address assignment

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as well as MAC address from it active network interface to its standby network interface and updating the ARP cache [see Osafune, Figs. 1-9 and Abstract and Paragraphs 0006-0007 & 0016-0019]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teaching of Osafune into the teaching of Hebert for the same reasons set forth above to claim 11.

Claims 33-35 are rejected under the same rationale set forth above to claims 11-13.

Other References Cited

- 6. The following references cited by the examiner but not relied upon are considered pertinent to applicant's disclosure.
 - A) Hebert, U.S. Pat. No. 6,728,780.
 - B) Tosey et al, U.S. Pat. No. 6,392,990.
 - C) Vepa et al, U.S. Pat. No. 6,560,630.
 - D) Chadalapaka, U.S. Pat. No. 6,845,403.
 - E) Joseph et al, U.S. Pat. Application Pub. No. US 2003/0145108 A1.
 - F) Congdon et al, U.S. Pat. No. 6,151,297.
 - G) Bell et al, U.S. Pat. No. 5,935,215.
 - H) Mikkionen, U.S. Pat. No. 6,885,633.
 - Diamant, U.S. Pat. No. 6,874,147.
 - J) Zisapel et al, U.S. Pat. No. 6,665,702.
 - K) Burns, U.S. Pat. No. 6,938,092.

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7. A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS ACTION IS SET TO EXPIRE THREE MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION. FAILURE TO RESPOND WITHIN THE PERIOD FOR RESPONSE WILL CAUSE THE APPLICATION TO BECOME ABANDONED (35 U.S.C. § 133). EXTENSIONS OF TIME MAY BE OBTAINED UNDER THE PROVISIONS OF 37 CAR 1.136(A).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tran whose telephone number is (571) 272-3991. The Group fax phone number is (571) 273-8300. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar, can be reached on (571) 272-4006.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PHILIP TRAN
PRIMARY EXAMINER

Art Unit 2155 June 21, 2007